

I claim:

- 1 1. A method of engineering project design using a real-time interface with a global
- 2 computer network, said method comprising:
 - 3 creating a database for approved engineering specific Universal Record Locator (URL)
 - 4 links;
 - 5 indexing said database according to predetermined engineering search queries;
 - 6 providing a graphical user interface (GUI) allowing a user to:
 - 7 (i) perform a categorized database inquiry for an engineering project by using a
 - 8 cascading drop-down menu process;
 - 9 (ii) input critical parameters regarding the specification and requirements for the
 - 10 engineering project; and
 - 11 (iii) compile project information into a job folder checklist;
 - 12 retrieval of URL links according to the database inquiry;
 - 13 accessing Web pages related to the retrieved URL links; and
 - 14 displaying pertinent information of the accessed Web pages and inserting the information
 - 15 into the job folder checklist.

- 1 2. The method of engineering project design according to claim 1, further including:
 - 2 displaying of a plurality of engineering disciplines;
 - 3 listing of conventional engineering projects within each engineering discipline; and
 - 4 providing a design process template for each engineering discipline integrated into the

5 GUI.

1 3. The method of engineering project design according to claim 2, wherein the design
2 process template prompts a user to input the critical parameters for a selected engineering
3 project.

1 4. The method of engineering project design according to claim 2, wherein the design
2 process template includes formulas for a selected engineering project.

1 5. The method of engineering project design according to claim 2, wherein the design
2 process template includes a drop-down menu for a selected engineering project.

1 6. The method of engineering project design according to claim 2, further including the
2 steps of:

3 performing iterative calculations to arrive at an acceptable final design; and
4 inserting the design data into the job folder checklist.

1 7. The method of engineering project design according to claim 6, wherein the iterative
2 calculations are based on material specifications acquired from a Web page review.

1 8. The method of engineering project design according to claim 6, wherein the iterative
2 calculations are based on component specifications acquired from a Web page review.

1 9. The method of engineering project design according to claim 6, wherein the iterative
2 calculations are based on design tables acquired from a Web page review.

1 10. The method of engineering project design according to claim 1 including the step of
2 displaying and printing of a flow diagram detailing the engineering project.

1 11. The method of engineering project design according to claim 1, further including the step
2 of displaying and printing of selected components selected during the Web page review.

1 12. The method of engineering project design according to claim 1, further including the step
2 of retrieving regulatory data from a Web page review.

1 13. The method of engineering project design according to claim 11, further including a step
2 of selection regulatory data to conform to a specific geographical location.

1 14. The method of engineering project design according to claim 1, further the step of
2 printing a report on the engineering project based on information in the job folder checklist.